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Publisher: ACM

Full text available: [Pdf \(109.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 123, Citation Count

A software repository, a place where reusable components are stored and searched for, is an important ingredient for instituting and popularizing software reuse. It is vital that a software repository should be well-organized and provide efficient tools for ...

Keywords: growing hierarchical self-organizing map, self-organizing map, software reuse

2 [The Geodesic Self-Organizing Map and its error analysis](#) [Yingxin Wu, Masahiro Takatsuka](#)January 2005 [ACSC '05: Proceedings of the Twenty-eighth Australasian conference on Computer Science - Volume 38](#), Volume 38

Publisher: Australian Computer Society, Inc.

Full text available: [Pdf \(530.40 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 57, Citation Count: 3

The Self-Organizing Map (SOM) is one of the popular Artificial Neural Networks for clustering and visualizing complex high dimensional data. Conventional SOMs are based on a 2-dimensional (2D) grid structure, which usually results ...

Keywords: error analysis, geodesic dome, self-organizing map, sphere tessellation

3 [Wireless localization using self-organizing maps](#) [Gianni Giorgetti, Sandeep K. S. Gupta, Gianfranco Manes](#)April 2007 [I PSN '07: Proceedings of the 6th international conference on Information and sensor networks](#)

Publisher: ACM

Full text available: [Pdf \(740.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)**Bibliometrics:** Downloads (6 Weeks): 21, Downloads (12 Months): 243, Citation Count

Localization is an essential service for many wireless sensor network applications. Most localization schemes rely on anchor nodes and range measurements to achieve positioning, we propose a range-free, anchor-free solution that ...

Keywords: localization, self-organizing maps, wireless sensor networks

- 4 Application of self-organizing maps to clustering of high-frequency financial Adam Blazejewski, Richard Coggins

January 2004 **ACSW Frontiers '04: Proceedings of the second workshop on A information security, Data Mining and Web Intelligence, and S Internationalisation - Volume 32** , Volume 32

Publisher: Australian Computer Society, Inc.

Full text available:  Pdf (611.50 KB) Additional Information: [full citation](#), abstract, references

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 84, Citation Count: 0

This paper analyzes the clustering of trades on the Australian Stock Exchange (the trade direction variable. The ASX is a limit order market operating an electronic book. The order book consists of buy limit orders (bids) ...

Keywords: equities, high-frequency financial data, self-organizing map, trade direction

- 5 A Web text mining approach based on self-organizing map

 Chung-Hong Lee, Hsin-Chang Yang

November 1999 **WIDM '99: Proceedings of the 2nd international workshop on Web data management**

Publisher: ACM

Full text available:  Pdf (435.06 KB) Additional Information: [full citation](#), abstract, references

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 107, Citation Count

Web text mining is a new issue in the knowledge discovery research field. It is discover knowledge from large quantities of semi-structured or unstructured text. Several approaches, including some pure ...

Keywords: document clustering, self-organizing map, text data mining

- 6 Mining rare and frequent events in multi-camera surveillance video using self

 Valery A. Petrushin

August 2005 **KDD '05: Proceedings of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining**

Publisher: ACM

Full text available:  Pdf (1.66 MB) Additional Information: [full citation](#), abstract, references

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 94, Citation Count: 1

This paper describes a method for unsupervised classification of events in multi-camera surveillance video. This research is a part of the Multiple Sensor Indoor Surveillance system which uses 32 AXIS-2100 webcams that observe an office ...

Keywords: indoor surveillance, rare event detection, self-organizing maps, visualization

- 7 Using self-organizing maps to build an attack map for forensic analysis

 H. Güneş Kayacik, A. Nur Zincir-Heywood

October 2006 **PST '06: Proceedings of the 2006 International Conference on Privacy Trust: Bridge the Gap Between PST Technologies and Business Services**

Publisher: ACM

Full text available:  Pdf (330.23 KB) Additional Information: [full citation](#), abstract, references

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 21, Citation Count: 1

In this work, we focus on developing behavioral models of known attacks to help identify the similarities between attacks. Furthermore, these attack behavior models can analyze zero-day attacks, which security experts have ...

Keywords: KDD 99 intrusion detection datasets, intrusion detection, neural network, organizing map

8 Rushes summarization with self-organizing maps

Markus Koskela, Mats Sjöberg, Jorma Laaksonen, Ville Viitaniemi, Hannes Muurinen
September 2007 **TVS '07: Proceedings of the international workshop on TRECVID 2007**
Publisher: ACM

Full text available:  Pdf (267.52 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 50, Citation Count: 1

In this paper, we describe our approach for video summarization that was applied to the rushes material as part of the TRECVID 2007 evaluations. The method consists of boundary detection followed by shot similarity assessment and pruning, ...

Keywords: self-organizing map, video summarization

9 3D model retrieval based on volumetric extended gaussian image and hierarchical self-organizing map

Jiql Zhang, Hau-San Wong, Zhiwen Yu
October 2006 **MULTIMEDIA '06: Proceedings of the 14th annual ACM international conference on Multimedia**
Publisher: ACM

Full text available:  Pdf (268.20 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 39, Citation Count: 1

In this paper, we introduce a novel shape signature, called Volumetric Extended Gaussian Image (VEGI). It captures the volumetric distribution of a 3D mesh model along the local direction without conventional pose normalization and is translation ...

Keywords: 3D model retrieval, hierarchical self organizing map, volumetric extended gaussian image

10 Discriminating and visualizing anomalies using negative selection and self-organizing maps

Fabio A. González, Juan Carlos Galeano, Diego Alexander Rojas, Angélica Veloza-Sánchez
June 2005 **GECCO '05: Proceedings of the 2005 conference on Genetic and evolutionary computation**
Publisher: ACM

Full text available:  Pdf (231.58 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 73, Citation Count: 1

An immune inspired model that can detect anomalies, even when trained only on normal data and can learn from encounters with new anomalies is presented. The model combines a negative selection algorithm and a self-organizing map (SOM) in an immune ...

Keywords: anomaly detection, anomaly visualization, artificial immune system, negative selection, self-organizing maps

11 Poisson-Based Self-Organizing Feature Maps and Hierarchical Clustering for

of Gene Expression Data

Haiying Wang, Huiru Zheng, Francisco Azuaje

April 2007 **IEEE/ ACM Transactions on Computational Biology and Bioinform**

Volume 4 Issue 2

Publisher: IEEE Computer Society Press

Full text available:  Pdf (4.75 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 94, Citation Count: 1

Serial analysis of gene expression (SAGE) is a powerful technique for global gene profiling, allowing simultaneous analysis of thousands of transcripts without prior functional knowledge. Pattern discovery and visualization ...

Keywords: Pattern discovery and visualization, self-organizing maps, hybrid non-Poisson distribution, serial analysis of gene expression.

12 Visualization of tonal content with self-organizing maps and self-similarity matrices

 Petri Tolviainen

October 2005 **Computers in Entertainment (CIE)**, Volume 3 Issue 4

Publisher: ACM

Full text available:  Pdf (665.64 KB) Additional Information: [full citation](#), [appendices](#), [supplementary material](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 121, Citation Count: 1

This article presents a dynamic model of tonality perception based on a short-term and a self-organizing map (SOM). The model can be used for dynamic visualization of tonal content, making it possible to examine the clarity and ...

Keywords: computational music cognition, harmonic analysis, music visualization, tonality models

13 Visualization tools for self-organizing maps

 Christopher C. Yang, Hsinchun Chen, K. K. Hong

August 1999 **DL '99: Proceedings of the fourth ACM conference on Digital libraries**

Publisher: ACM

Full text available:  Pdf (90.82 KB) Additional Information: [full citation](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 175, Citation Count: 1

Keywords: fisheye view, fractal view, information retrieval clustering, information visualization, self-organizing map, semantic interoperability

14 Visualizing windows executable viruses using self-organizing maps

 InSeon Yoo

October 2004 **VizSEC/ DMSEC '04: Proceedings of the 2004 ACM workshop on Visualizing security and privacy in computer security**

Publisher: ACM

Full text available:  Pdf (571.27 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 100, Citation Count: 1

This paper concentrates on visualizing computer viruses without using virus specific information as a prior stage of the very important problem of detecting computer viruses. In this paper, we address the fact that each viruses have its own ...

Keywords: self-organizing maps, visualization, windows executable viruses

- ◆ Integration of self-organizing maps with spatial indexing for efficient processing of dimensional data
M. Zaremba, L. St-Laurent, O. Niemann, D. Richardson
November 2000 **GIS '00: Proceedings of the 8th ACM international symposium on geographic information systems**
Publisher: ACM
Full text available:  [Pdf \(721.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
- Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 45, Citation Count: 0

This paper investigates the integration of a class of adaptive soft-computing techniques with helical hyperspatial codes (HHCode) - indexing technology developed by the Hydrographic Services - and their use in developing automated ...

Keywords: clustering methods, fuzzy logic, multi-dimensional indexing, multi-processing, self-organizing maps

- 16 Visualizing customer segmentations produced by self-organizing maps (case study)**
Holly Rushmeier, Richard Lawrence, George Almasi
October 1997 **VIS '97: Proceedings of the 8th conference on Visualization '97**
Publisher: IEEE Computer Society Press

Full text available:  [Publisher Site](#) ,  [Pdf \(780.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 16, Citation Count: 4

- 17 Growing Hierarchical Self-Organizing Maps for Web Mining**
Joseph P. Herbert, JingTao Yao
November 2007 **WI '07: Proceedings of the IEEE/WIC/ACM International Conference on Web Intelligence**
Publisher: IEEE Computer Society

Full text available:  [Pdf \(473.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 88, Citation Count: 0

Many information retrieval and machine learning methods have not evolved in response to the Web. Two main problems in applying some machine learning techniques are the dynamic and ever-changing nature of Web data and the sheer ...

- 18 A context vector-based self-organizing map for information visualization**
David A. Rushall, Marc R. Ilgen
May 1996 **Proceedings of a workshop on held at Vienna, Virginia: May 6-8, 1996**
Publisher: Association for Computational Linguistics

Full text available:  [Pdf \(708.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 41, Citation Count: 0

HNC Software, Inc. has developed a system called DOCUVERSE for visualizing the content of large textual corpora. The system is built around two separate neural methodologies: context vectors and self-organizing maps. Context vectors ...

- 19 Predictive modeling and planning of robot trajectories using the self-organizing map**
Guilherme A. Barreto, Aluizio F. R. Araújo
May 2004 **IEA/ AI E'2004: Proceedings of the 17th international conference on Intelligent robotics and artificial intelligence**
Publisher: Springer Springer Verlag Inc
Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

In this paper, we propose an unsupervised neural network for prediction and pl robot trajectories. A general approach is developed which allows Kohonen's Self-Organizing Map (SOM) to approximate nonlinear input-output dynamical mappings ...

20 On the issue of neighborhood in self-organizing maps

 Hua Yang, M. Palaniswami

April 1992 **SAC '92: Proceedings of the 1992 ACM/SIGAPP Symposium on Applied
Technological Challenges of the 1990's**

Publisher: ACM

Full text available:  [Pdf \(413.12 KB\)](#) Additional Information: [full citation](#), [references](#), [cited by](#),

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 35, Citation Count: 2

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